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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,585	04/23/2001	William F. Gray	122.0002	1415
25534 75	590 11/02/2004		EXAM	INER
CAHN & SAMUELS LLP			COLON, ROCIO	
2000 P STREET NW SUITE 200		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20036			2651	-
	•	•	D. (T.) () () () ()	

DATE MAILED: 11/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summary	09/839,585 Examiner	GRAY ET AL. Art Unit				
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The MAILING DATE of this communication ap	Rocio Colon pears on the cover sheet with	h the correspondence address				
Period for Reply	, , , , , , , , , , , , , , , , , , , 					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repoly within the statutory minimum of thirty I will apply and will expire SIX (6) MONT te, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 23 A	A <i>pril 2001</i> .					
a) ☐ This action is FINAL . 2b) ☑ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 1-13 and 17 is/are allowed. 6) ☐ Claim(s) 14-16,18 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on <u>04/23/01</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	, -				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Appority documents have been rau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 20020903. 	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152) 				

is drawn to a computer usable medium.

DETAILED ACTION

Claim Objections

1. Claims 14-16 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claims 14-16, are improper dependent claims, drawn to a method while the base claim

Drawings

2. The drawings are objected to because some words of Figs. 11-12 are not clear. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and

useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 14-16 and 18-19 are rejected under 35 U.S.C. 101 because the claimed invention is

directed to non-statutory subject matter.

Claims are drawn to a "computer data signal" per se as recited in the preamble and as such is

non-statutory subject matter. See MPEP § 2106.IV.B.1.a. Data structures not claimed as embodied in

computer readable media are descriptive material per se and are not statutory because they are not capable

of causing functional change in the computer. See, e.g., Warmerdam, 33 F.3d at 1361, 31 USPQ2d at

1760 (claim to a data structure per se held nonstatutory). Such claimed data structures do not define any

structural and functional interrelationships between the data structure and other claimed aspects of the

invention, which permit the data structure's functionality to be realized. In contrast, a claimed computer

readable medium encoded with a data structure defines structural and functional interrelationships

between the data structure and the computer software and hardware components which permit the data

structure's functionality to be realized, and is thus statutory. Similarly, computer programs, (i.e. the

computer program code which is comprised in the computer data signal as stated by the applicant in the

claim), claimed as computer listings per se, i.e., the descriptions or expressions of the programs are not

physical "things." They are neither computer components nor statutory processes, as they are not "acts"

being performed. Such claimed computer data signal do not define any structural and functional

interrelationships between the computer data signal and other claimed elements of a computer, which

permit the computer program's

functionality to be realized.

5. Claims 1-13 and 17 are allowed.

6. The following is an examiner's statement of reasons for allowance:

Regarding claims 1, 11 and 17, the prior art of record fail to disclose an article of manufacture comprising a computer usable medium having a computer readable program code comprising: generating a test string including a plurality of performance sensitive reads, including one of a first and second read, determining the probability of occurrence of a given ratio of first to second reads in the test string and storing respective probabilities as calibration parameters for the test string.

Regarding claim 8, the prior art of record fail to disclose an article of manufacture comprising a computer usable medium having a computer readable program code comprising: generating access patterns for reads of data that test reliability of specific functions, identifying the performance sensitive reads in each of the access patterns, each sensitive read including one of a first and second read, and generating a test string including a plurality of the first and second reads, the test string, when applied to a disk drive, being a indicator of possible disk drive failure.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Rocio Colon whose telephone number is (703) 305-3947. The examiner can normally be

reached on Mon-Thu 8:00a.m.-6:30p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh

Tran can be reached on (703)305-4040. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

October 26, 2004

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